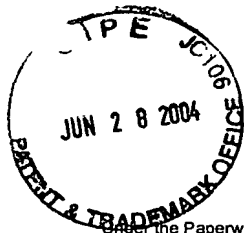


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10/829432

BB1167USCNT

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:

STEPHEN M. ALLEN

CASE NO.: BB1167USCNT

APPLICATION NO.: 10/829432

CONFIRMATION NO.:

GROUP ART UNIT: 1638

EXAMINER:

FILED: APRIL 21, 2004

FOR: SULFATE ASSIMILATION PROTEINS

INFORMATION DISCLOSURE STATEMENT

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P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO/SB/08 forms made of record in the parent application.

Benefit of the earlier filing date of U.S. Patent Application No. 09/720,384, filed December 21, 2000 is claimed under 35 U.S.C. 120 for the above-referenced application and only copies of information not previously made of record in the parent are enclosed.

Should any fee be required in connection with the filing of this Information Disclosure Statement, please charge such fee to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company).

Respectfully submitted,

Dawn S. Clark

DAWN S. CLARK
AGENT FOR APPLICANT
Registration No.: 42,420
Telephone: (302) 695-1080
Facsimile: (302) 892-1026

Dated: June 23, 2004

Enclosures

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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Complete if Known

Application Number	10/829,432
Filing Date	April 21, 2004
First Named Inventor	Saverio Carl Falco et al.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	BB1167USCNT

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		FRANK W. SMITH ET AL., PNAS, vol. 92:9373-9377, 9/1995, Plant Members of a Family of Sulfate Transporters Reveal Functional Subtypes	
		ANGELO BOLCHI ET AL., Plant Mol. Biology, vol. 39:527-537, 1999, Coordinate Modulation of Maize Sulfate Permease and ATP Sulfurylase mRNAs in Response to Variations in Sulfur Nutritional Status: Stereospecific Down-Regulation by L-Cysteine	
		AMIT SETYA ET AL., PNAS, vol. 93:13383-13388, 11/96, Sulfate Reduction in Higher Plants: Molecular Evidence for a Novel 5'-adenylylsulfate Reductase	
		KEIKO YONEKURA-SAKAKIBARA ET AL., J. Biochem., vol. 124:615-621, 1998, Molecular Characterization of Tobacco Sulfite Reductase: Enzyme Purification, Gene Cloning, and Gene Expression Analysis	
		KAZUKI SAITO ET AL., J. Biol. Chem., vol. 270(27):16321-16326, 7/7/1995, Molecular Cloning and Characterization of a Plant Serine Acetyltransferase Playing a Regulatory Role in Cysteine Biosynthesis from Watermelon	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 2832300, 8/10/98, ARZ, H.E., A cDNA for Adenylyl Sulphate (APS)-kinase from Arabidopsis Thaliana	
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		SANDRA SCHIFFMANN ET AL., FEBS Letters, vol. 355:229-232, 1994, APS-Sulfotransferase Activity is Identical to Higher Plant APS-kinase	
		AJAY JAIN ET AL., Plant Phys., vol. 105:771-772, 1994, A cDNA Clone for 5'-Adenylylphosphosulfate Kinase from Arabidopsis Thaliana	

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Filing Date	April 21, 2004
First Named Inventor	Saverio Carl Falco et al.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	BB1167USCNT

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		CHEN, Y ET AL., Plant Phys.- Suppl., vol. 108(2):72, 6/1995, Sulfate-Regulated Expression of ATP Sulfurylase and Adenosine-5'-Phosphosulfate Kinase in Brassica Juncea	
		SANGMAN LEE ET AL., Biochem. and Biophys. Res. Comm., vol. 247:171-175, 1998, APS Kinase from Arabidopsis thaliana: Genomic Organization, Expression, and Kinetic Analysis of the Recombinant Enzyme	
		WALBOT, V., EMBL ACCESSION NO. A1637166, 4/27/99, Maize ESTs from Various cDNA Libraries Sequenced at Stanford University, XP002123195	

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Sheet 1 of 3

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		EMBL SEQUENCE LIBRARY DATA ACCESSION NO: D89631, 07-30-97, SOHLBERG, L.E. ET AL., Nucleotide Sequence of a cDNA encoding a Cys proteinase from germinating bean cotyledons, XP-0021299910	
		EMBL SEQUENCE LIBRARY DATA ACCESSION NO: O49307, 06-01-98, FEDERSPIEL, N.A. ET AL., XP-002129911	
		EMBL SEQUENCE LIBRARY DATA ACCESSION NO: D25000, 11-30-93, MINOBE, Y. ET AL., Rice cDNA from root, XP-002129912	
		FRANK W. SMITH ET AL., PNAS, Vol. 92:9373-9377, 9/1995, Plant members of a family of sulfate transporters reveal functional subtypes, XP-002129913	
		HIDEKI TAKAHASHI ET AL., Plant & Cell Phys., vol. 39 suppl, pp.S148, 1998, Antisense repression of sulfate transporter in transgenic Arabidopsis thaliana plants, XP-002121793	
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		EMBL SEQUENCE LIBRARY DATA ACCESSION NO: X96761, 03-25-97, NG, A. ET AL., Isolation & characterization of a lowly expressed cDNA from the resurrection grass Sporobolus stapfianus with homology to eukaryote sulfate transporter proteins, XP-002121791	
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		EMBL SEQUENCE DATA LIBRARY ACCESSION NO: O48889, 06-01-1998, BOLCHI, A. ET AL.	
		FRANK W. SMITH ET AL., The Plant Journal, vol. 12(4):875-884, 1997, Regulation of expression of a cDNA from barley roots encoding a high affinity sulphate transporter, XP-002129909	
		ANTJE PRIOR ET AL., Biochimica et Biophysica Acta, vol. 1430:25-38, 1999, Structural and kinetic properties of adenylyl sulfate reductase from Catharanthus roseus cell cultures	

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				Application Number	10/829,432
				Filing Date	April 21, 2004
				First Named Inventor	Saverio Carl Falco et al.
				Group Art Unit	Unknown
				Examiner Name	Unknown
Sheet	2	of	3	Attorney Docket Number	BB1167USCNT

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS				
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		SENTA HEISS ET AL., Plant Mol. Biol., vol. 39:847-857, 1999, Cloning sulfur assimilation genes of Brassica juncea L.: cadmium differentially affects the expression of a putative low-affinity sulfate transporter and isoforms of ATP sulfurylase and APS reductase		
		JOHN L. WRAY ET AL., Chemico-Biological Interactions, vol. 109:153-167, 1998, Redefining reductive sulfate assimilation in higher plants: a role for APS reductase, a new member of the thioredoxin superfamily?		
		JULIE ANN BICK ET AL., Current Opinion in Plant Biology, 1998, pp. 240-244, Plant sulfur metabolism - the reduction of sulfate to sulfite		
		JULIE-ANN BICK ET AL., PNAS, vol. 95:8404-8409, 7/1998, Glutaredoxin function for the carboxyl-terminal domain of the plant-type 5'-adenylylsulfate reductase		
		JOSE F. GUTIERREZ-MARCOS ET AL., PNAS, vol. 93:13377-13382, 1996, Three members of a novel small gene-family from Arabidopsis thaliana able to complement functionally an Escherichia coli mutant defective in PAPS reductase activity encode proteins with a thioredoxin-like domain and "APS reductase" activity		
		AMIT SETYA ET AL., PNAS, vol. 93:13383-13388, 1996, Sulfate reduction in higher plants: Molecular evidence for a novel 5'-adenylylsulfate reductase		
		EMBL SEQUENCE LIBRARY DATA ACCESSION NO: C27405, 08-06-97, SASAKI, T. ET AL., Rice cDNA from callus, XP-002121812		
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		CHRISTINE BORK ET AL., Gene, vol. 212:147-153, 1998, Isolation and characterization of a gene for assimilatory sulfite reductase from Arabidopsis thaliana		

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Application Number	10/829,432
Filing Date	April 21, 2004
First Named Inventor	Saverio Carl Falco et al.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	BB1167USCNT

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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		ANDREAS BRUHL ET AL., Biochimia et Biophysica Acta, vol. 1295:119-124, 1996, A cDNA clone from Arabidopsis thaliana encoding plastidic ferredoxin: sulfite reductase	
		DATABASE WPI, DERWENT PUBL., LTD., JP-62 455773, MITSUBISHI CORP., 9/6/94, XP-002121814	
		EMBL SEQUENCE LIBRARY DATA ACCESSION NO: AU068082, 06/07/99, SASAKI, T. ET AL., Rice cDNA from callus, XP-002128630	
		EMBL SEQUENCE LIBRARY DATA ACCESSION NO: AQ688702, 07/02/99, YU, Y. ET AL., A BAC Endc sequencing framework to sequence the rice genome, XP-002128631	
		SAITO, K., Stress Responses of Photosynthetic organisms, 1998, pgs. 215-226, Molecular Aspects of Sulfur Assimilation and Acclimation to Sulfur Supply in Plants	
		KAZUKI SAITO ET AL., Plant Phys., vol. 106:887-895, 1994, Modulation of Cystine Biosynthesis in Chloroplasts of Transgenic Tobacco Overexpressing Cystine Synthase [O-Acetylserine(thiol)-lyase]1	
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		EMBL SEQUENCE LIBRARY DATA ACCESSION NO: p93544, 05-01-97, SAITO, K. ET AL., XP-002128628	
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		MICHAEL A. ROBERTS ET AL., Plant Molecular biology, vol. 30:1041-1049, 1996, Cloning and characterisation of an Arabidopsis thaliana cDNA clone encoding an organellar isoform of serine acetyltransferase	
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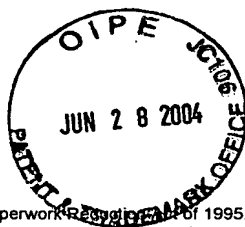
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Complete if Known

Application Number	10/829,432
Filing Date	April 21, 2004
First Named Inventor	Stephen M. Allen Et. Al.
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	BB1167USCNT

NON PATENT LITERATURE DOCUMENTS

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		DEYRUP, ANDREA T. et al., "Deletion and Site-directed Mutagenesis of the ATP-binding Motif (P-loop) in the Bifunctional Murine Atp-Sulfurylase/Adenosine 5'-Phosphosulfate Kinase Enzyme," The Journal of Biological Chemistry, April 17, 1998, pp. 9450-9456, Vol. 273, No. 16	<input type="checkbox"/>
		MACRAE, IAN J. et al., "Crystal Structure of Adenosine 5'-Phosphosulfate Kinase from Penicillium chrysogenum," Biochemistry, 2000, pp. 1613-1621, Vol. 39	<input type="checkbox"/>
		SATISHCHANDRAN, C. et al., "Characterization of the Phosphorylated Enzyme Intermediate Formed in the Adenosine 5'-Phosphosulfate Kinase Reaction," Biochemistry, 1992, pp. 11684-11688, Vol. 31	<input type="checkbox"/>
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